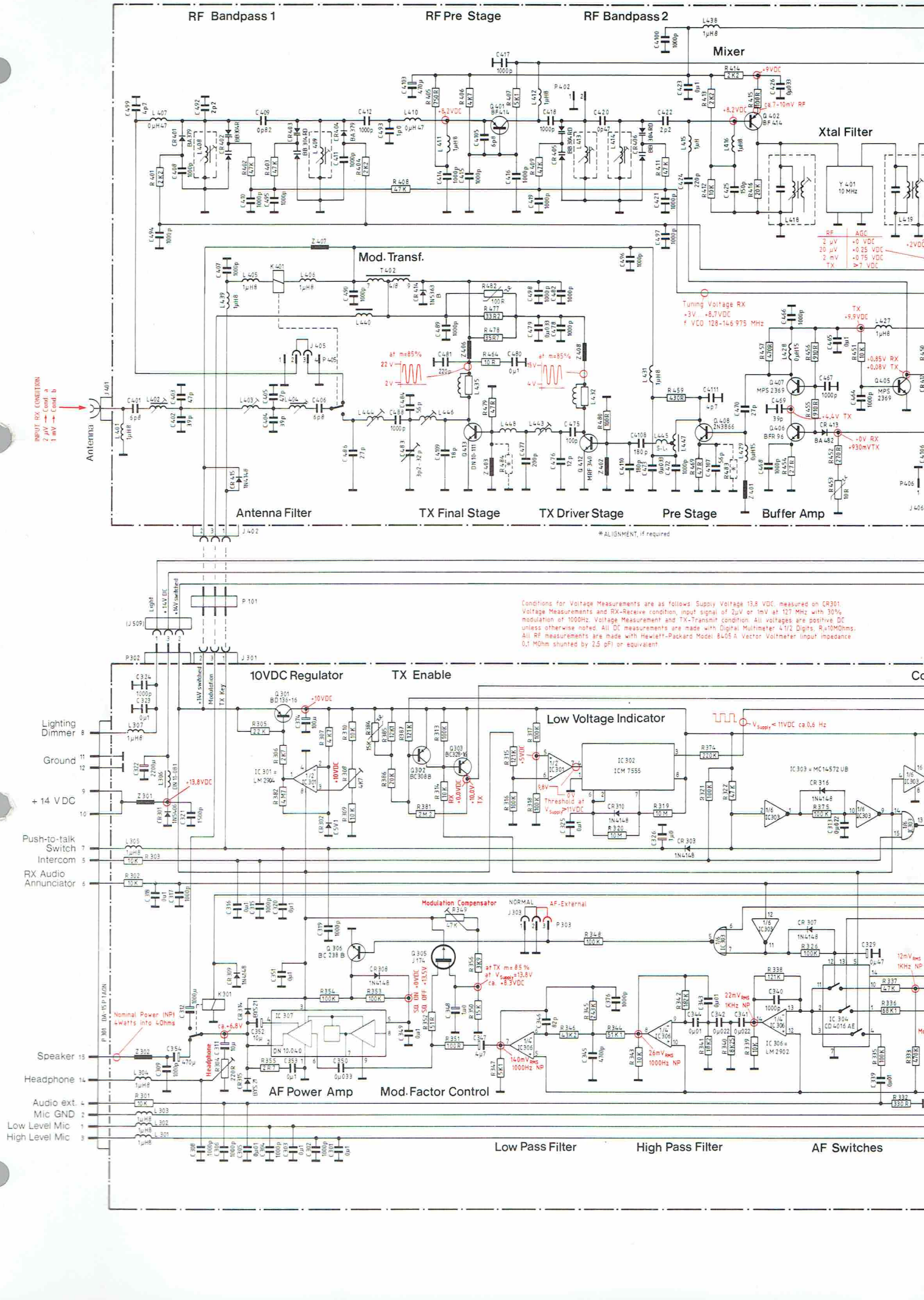
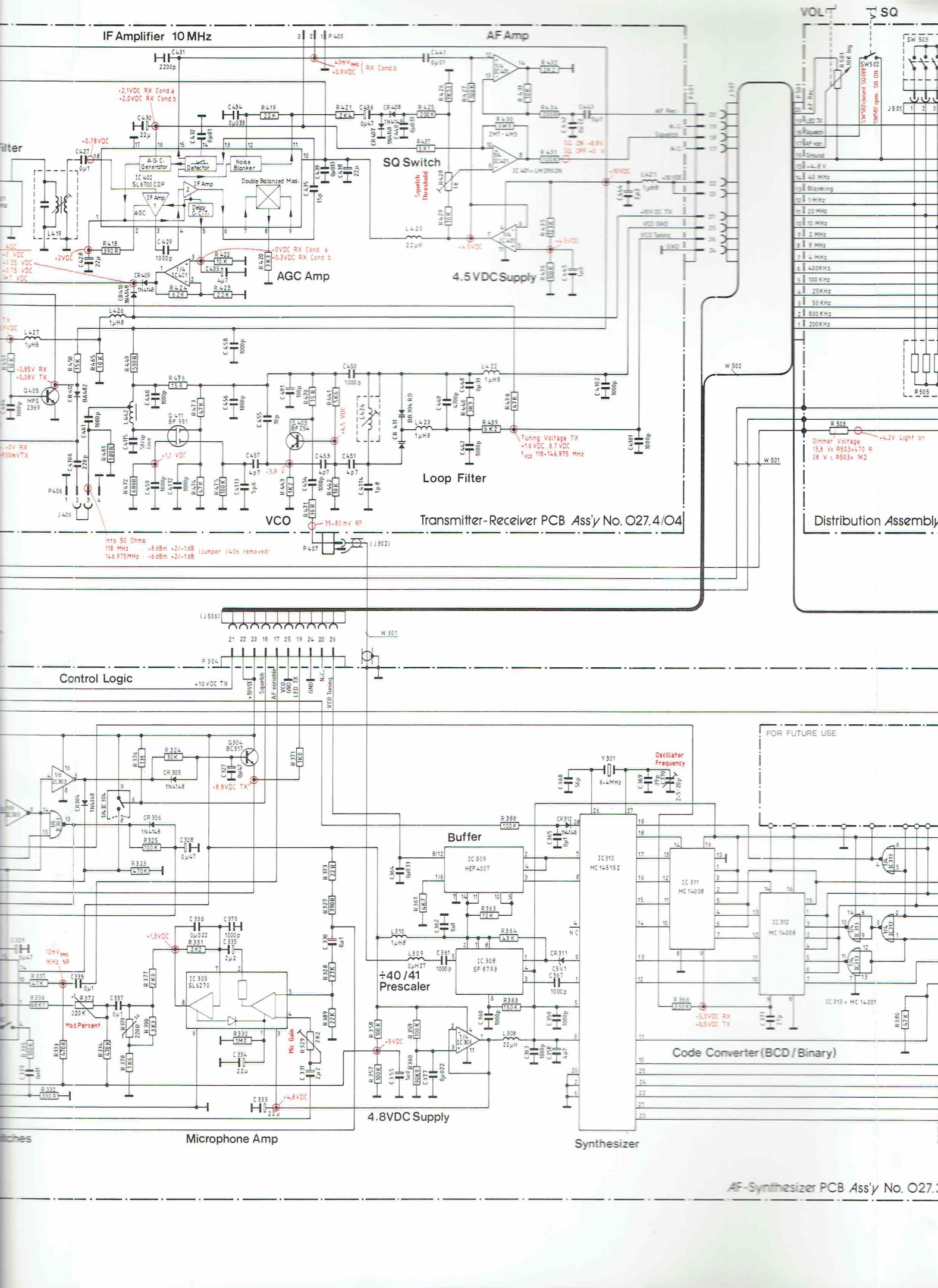
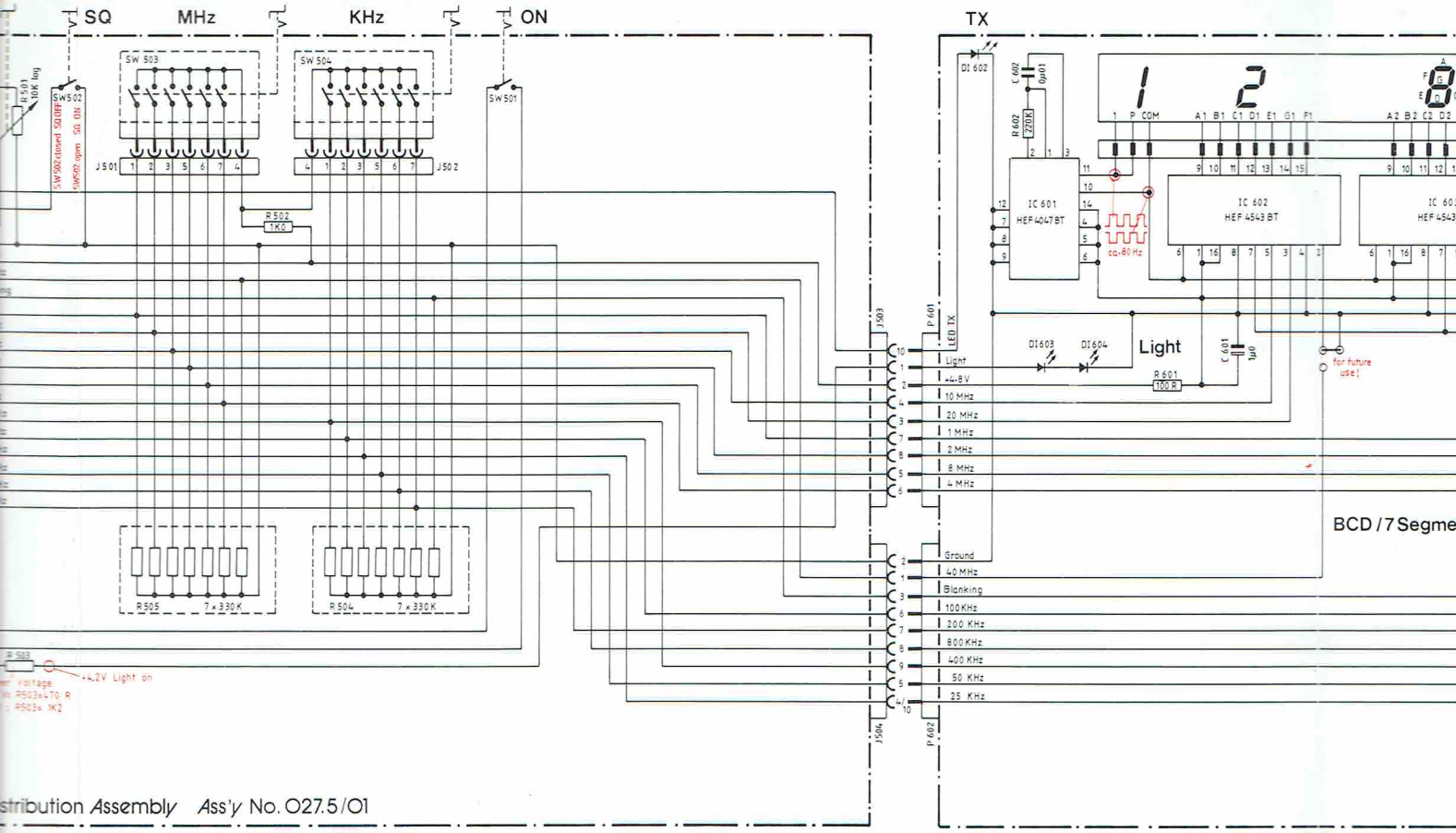
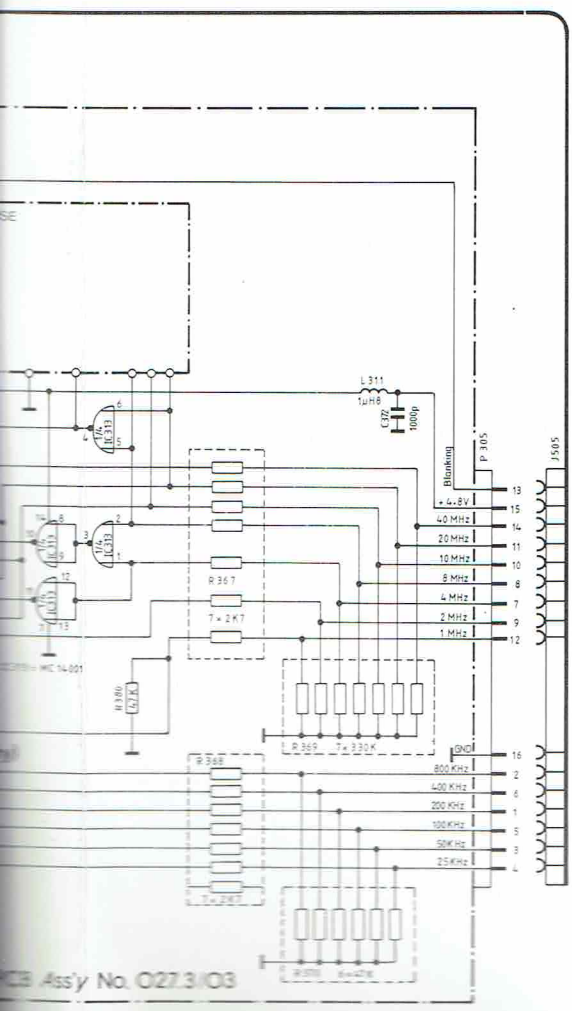

RF Bandpass 1
RF Pre Stage
RF Bandpass 2
Mixer
Xtal Filter
Mod. Transf.
Tuning Voltage RX
+3V ... +8.7VDC
f VCO 128-146.975 MHz
TX
+9.9VDC
+0.85V RX
+0.08V TX
+4.4V TX
+0V RX
+930mVTX
Antenna
INPUT RX CONDITION
2 µV → Cond. a
1 mV → Cond. b
Antenna Filter
TX Final Stage
TX Driver Stage
Pre Stage
Buffer Amp
* ALIGNMENT, if required
Conditions for Voltage Measurements are as follows: Supply Voltage 13,8 VDC, measured on CR301. Voltage Measurements and RX-Receive condition, input signal of 2µV or 1mV at 127 MHz with 30% modulation of 1000Hz. Voltage Measurement and TX-Transmit condition. All voltages are positive DC unless otherwise noted. All DC measurements are made with Digital Multimeter 4 1/2 Digits, Ri≥10MOhms. All RF measurements are made with Hewlett-Packard Model 8405 A Vector Voltmeter (input impedance 0,1 MOhm shunted by 2,5 pF) or equivalent.
10VDC Regulator
TX Enable
Low Voltage Indicator
Lighting Dimmer
Ground
+ 14 V DC
Push-to-talk Switch
Intercom
RX Audio Annunciator
Speaker
Headphone
Audio ext.
Mic GND
Low Level Mic
High Level Mic
Modulation Compensator
AF-External
Nominal Power (NP) 4Watts into 40ohms
AF Power Amp
Mod. Factor Control
Low Pass Filter
High Pass Filter
AF Switches


IF Amplifier 10 MHz
AF Amp
SQ Switch
AGC Amp
4.5 VDC Supply
Loop Filter
VCO
Transmitter-Receiver PCB Ass'y No. 027.4/04
Distribution Assembly
VOL
SQ
Control Logic
Buffer
÷40 /41 Prescaler
Code Converter (BCD / Binary)
Microphone Amp
4.8VDC Supply
Synthesizer
FOR FUTURE USE
AF-Synthesizer PCB Ass'y No. 027.3

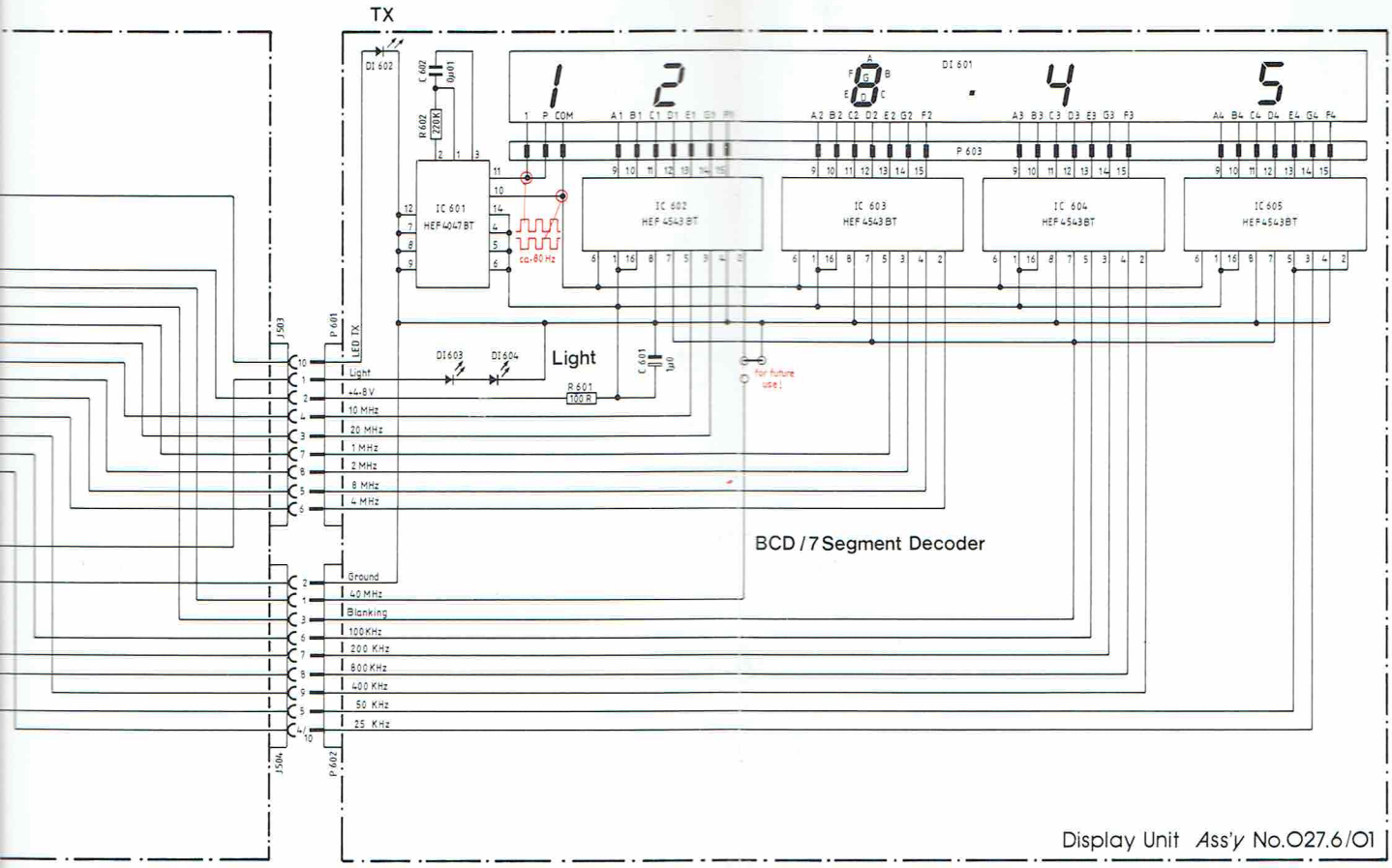


stribution Assembly Ass'y No. 027.5/01



CB Ass'y No. 027.3/03

PART NO. 027/11x



PART NO. 027/11x

FSG 70 Circuit Diagram

01.90